

DNSSEC deployment in .cz & 0.2.4.e164.arpa

CZ.NIC

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<http://www.nic.cz>

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About CZ.NIC

- Founded in 1998 by group of 16 ISPs
- Special interest association of legal entities
- 57 members – growing (open membership)
- Registry-Registrar model (28 registrars)
- Liberal registration model – no restrictions
- Domains currently
 - .cz 480 000
 - 0.2.4.e164.arpa 4 700
- Fast growth – 36%
- Securing DNS

Conditions

- Available for .cz and 0.2.4.e164.arpa
- Key sharing
 - same keys for multiple domains
 - reduces overhead
- Free of charge
 - not service, but feature
 - within domain registration fee
- Using registrars – no model change
- Fully integrated into FRED <http://fred.nic.cz>

Conditions

- Operations and security
 - Based on RFCs
 - Keys RSA-SHA1 2048/1024bit
 - High security
- Zone walking problem
 - no personal data disclosed
 - approved by Personal Data Protection Office
 - NSEC3 later
- ISC DLV

Timeline

How it begun?



Timeline

- 29.2.2008 Public announcement – WP issued
- 28.4.2008 ENUM zone signed
- 28.4.2008 Final version of WP issued -
development started
- 15.8.2008 Testing for registrars
- 1.9.2008 .CZ zone signed
- 30.9.2008 End user registration start**

Current status

- 250 signed .cz domain
- 6 signed ENUM domains
- Supported by largest registrars - special product – “secure domain”
- Large newspaper support - <http://www.lidovsky.cz>
- Some ISP joined
- <http://www.nic.cz/dnssec> - information and simple test



Future work

- Communication
 - Largest ISPs
 - Portals and search engines
 - Large companies – banks, newspapers
 - Government
- Laboratory – dnssec compatibility
- Education
- Other registries
- **Sign the root!**

Questions?

Thank you!

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